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	Approved-Eer Release 2004/05/05 : CIA-RDP78B05171A000600010064-3
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	MEMORANDUM FOR: Deputy Director of Central Intelligence
	THROUGH : Executive Director-Comptroller Director, Office of Planning, Programming & Budgeting Assistant Deputy Director for Intelligence
	SUBJECT: Request for Approval to Contract for the Fabrication of a Prototype Scan and Search Photo Interpretation Station with at a Cost of from FY-1970 R&D Funds
	1. This memorandum requests approval for the commitment of R&D funds for an NPIC contract. The specific request is stated in Paragraph 8.
25X1	2. During Fiscal Year 1969, NPIC contracted with the
	Interpretation Station, under Contract Two subsequent changes-in-scope increased this to a total Tost of This design contract is currently nearing the cost of the contract is currently nearing the cost of th
25X1	cost of This design contract is technical and

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g completion and will provide all the design data for subsequent fabrication of a prototype in-This memorandum requests funds to cover a followon contract for the fabrication of the prototype. strument.

This photo interpretation station, designed specifically to accomplish the scan and search task, will consist of a high-resolution, rear-projection viewer combined with This instrument was conceived in an integral light table. direct response to the requirement to scan the large volumes It will permit the of film forecast interpreter to quickly and simply load two rolls imagery (one from each camera) and then view either roll projected upon a 30" X 30" high-resolution screen. When an area

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requiring more detailed investigation appears on the screen, the interpreter can automatically advance the same imagery to the integral light table and view the film either monoscopically or in stereo with a microstereoscope. This aproach, therefore, combines the advantages of rear-projection and direct viewing in a single system.

1970 K&D FUNGS

4. In our estimation, the primary advantage of the proposed photo interpretation station will probably lie in the area of operational effectiveness; i.e., diminution of the probability of overlooking an intelligence "find." In addition, there may be some increase in efficiency with respect to the scan and search operation because the instrument, as configured, comprises what we believe to be the most efficient combination possible of direct and rear-projection viewing. The greatly increased field of view provided by the rear-projection viewer portion of the station

length of the roll can be projected on the screen at 4x magnification) is expected to provide the photo interpreter with the additional contextual data, often so important to the photo interpretation process. The light table and microstereoscope section of the station will then allow the photo interpreter to avail himself instantly of the higher contrast and magnification necessary for confirming and analyzing specific targets without burdening him with the tedious, time-consuming task of removing the film from the projector and reloading it on a light table. Utilizing the prototype, we will conduct operational testing and data collection to ascertain, as empirically as possible, the effectiveness of the instrument; results of these tests, along with a cost/effectiveness analysis, will form the basis for any decision as to whether or not to incorporate the station into the NPIC equipment inventory.

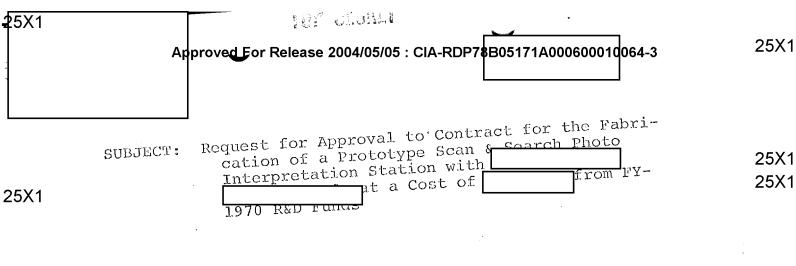
5. The proposed program requires seventeen months for the fabrication of the prototype instrument. The probability of success of this program is considered to be high because

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25X1	SUBJECT: Request for Approval to Contract for the Fabrication of a Prototype Scan and Search Photo Interpretation Station with t a Cost of From FY- 1970 R&D Funds	25X1 25X1
	nearly all of the potential high-risk areas have been considered during the extensive design phase. The optical systems, the transport system, electronics, and controls have all been designed to provide the most efficient overall configuration in the smallest possible package, since space is a critical consideration at the Center. The screen selected for this development is one having the highest resolving power of any screen now commercially available. However, it is anticipated that a current NPIC research effort will, in the near future, provide a lenticular-type screen which will furnish much higher performance, both in resolution and contrast, than existing screens. The optical system design chosen offers better overall optical performance than that of any rear-projection system currently in existence. Other design features incorporated in this station are the result of recommendations made by the	25X1
25X1	the selected contractor, was chosen because it has a long history of proven success in developments of this type. During the design phase, in developments of this type. Burgtom design from 13 domestic	25X1
	solicited bids for the optical system design representations and foreign companies. The development objectives were so and foreign companies bid, with the	25X1
25X1	demanding that only three companies star, and fixed	25X1
25X1 35×1	price), as well as the most appealing technical proposal. submitted a proposal at submitted one at	25X1
4	submitted one at and both detath possibility to their proposals which strongly suggested the possibility of overruns. Consequently, for the optics design; its performance on this task has been as optics design; its performance on the design and fabrication of the excellent as it was on the design and fabrication, also being	25X1
25X1 25X1	optics for the High Precision States on a fixed price basis. NPIC this instrument to the proposes of the optics for the proposes to subcontract the fabrication of the optics for the instrument to the proposes.	25X1
25X1	concurs with selection in this matter.	25X1

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25X1	SUBJECT: Request for Approval to Contract for the Fabrication of a Prototype Scan & Search Photo Interpretation Station with from FY- 1970 R&D Funds	25X1
25X1	8. It is requested that approval be granted to negotiate a contract with for the fabrication of a prototype Scan and Search Photo Interpre-	25X1
	tation Station at a cost not to exceed from FY- 1970 R&D funds. ARTHUR C. LUNDAHL Director National Photographic Interpretation Center	25X1
	Attachments: (2) 1. Proposal 2. Form 2420 CONCUR: Assistant Deputy Director for Intelligence Date	
	APPROVED: Deputy Director of Central Intelligence Date	



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